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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,703	09/19/2003	Charles Abraham	GLBL-015PID1	6015
54698	7590	01/10/2006	EXAMINER	
RAYMOND R. MOSER JR., ESQ. MOSER IP LAW GROUP 1040 BROAD STREET 2ND FLOOR SHREWSBURY, NJ 07702			KIM, KEVIN	
			ART UNIT	PAPER NUMBER
			2638	

DATE MAILED: 01/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/665,703

Applicant(s)

ABRAHAM ET AL.

Examiner

Kevin Y. Kim

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4-18 is/are allowed.
- 6) ☒ Claim(s) 2,3 and 19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed October 27, 2005, with respect to the rejection(s) of claim(s) 2,3,19 under USC 1039(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of a newly found prior art reference, as set forth below.

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1, 2 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Woo (US 5,808,582 previously cited) in view of Dent (US 6,934,317) and Fan (US 6,433,726).

Claim 2.

Woo discloses a satellite signal receiver (GPS receiver, see Fig. 12), comprising:

- 1) "a front end" (1202) for receiving a satellite signal
- 2) "a sampling circuit" (1203) for digitizing the satellite signal
- 3) "a processor" (1204) for performing at least a subset of a convolution between

a pseudorandom reference code and the digitized signal. See Abstract.

Woo fails to teach the sampling circuit (1203) to have "either a first sampling spacing or a second sampling spacing" and "a mode selection processor for selecting either said first sampling spacing or said second sampling spacing." Dent et al teaches that the sampling rate for a received CDMA signal may be one or more samples per chip. Here, which rate to use would be dependent on a design criteria. See col. 27, lines 23-24. Further, Fan

teaches a decimator, i.e., “a subsampling circuit,” coupled to an A/D converter as a means for providing a selected one of different sampling rates. Thus, it would have been obvious to one skilled in the art at the time the invention was made to add a decimator, i.e., “a subsampling circuit,” to the A/D converter of Woo for the purpose of providing a multiple sampling rate capability as taught by Dent in order to select a desired sampling rate/space.

Claim 3.

Woo disclose a GPS receiver, thereby including “a computer” (1205) for computing a position location.

Claim 19.

Fig. 12 of Woo shows “a plurality of processing channels,” i.e., I and Q channels.

Allowable Subject Matter

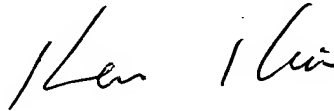
4. Claims 4-18 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on 8AM --5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Kenneth Vanderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Kevin Kim", is positioned above the printed name.

**KEVIN KIM
PATENT EXAMINER**